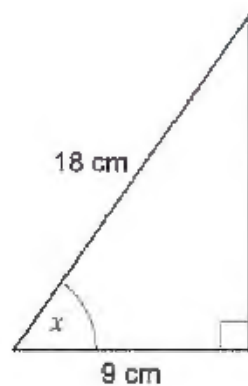


5

Use trigonometry to work out the size of angle  $x$ .



Not drawn  
accurately

[2 marks]

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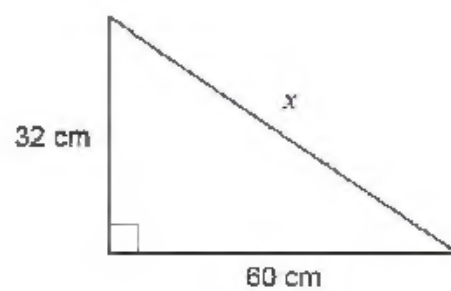
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Answer \_\_\_\_\_ degrees

7

Use Pythagoras' theorem to work out the value of  $x$ .



Not drawn  
accurately

**[3 marks]**

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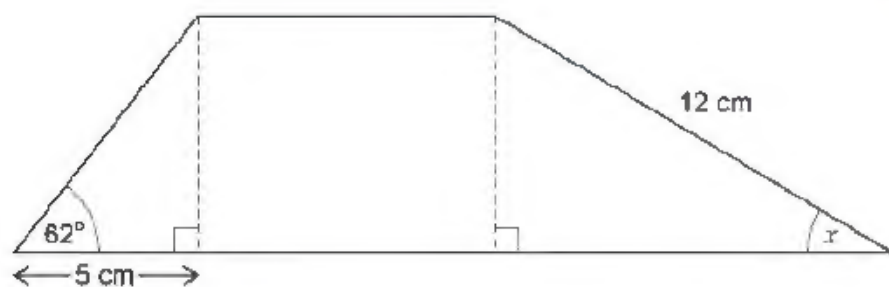
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Answer \_\_\_\_\_ cm

18

This shape is made from two right-angled triangles and a rectangle.

Not drawn  
accurately



Work out the size of angle  $x$ .

[4 marks]

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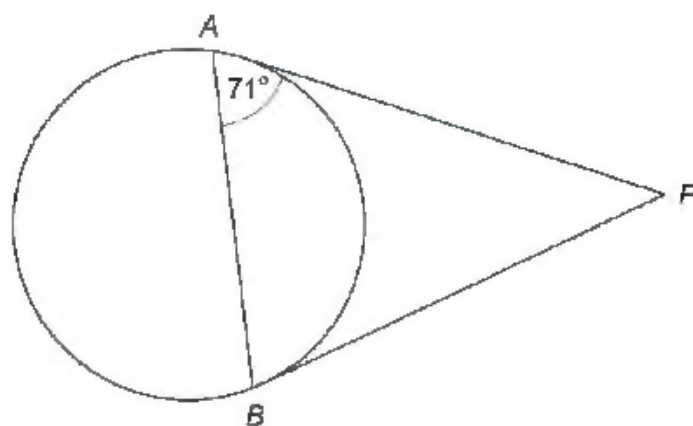
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Answer \_\_\_\_\_ degrees

- 21 (a)  $A$  and  $B$  are points on a circle.  
 $PA$  and  $PB$  are tangents.



Not drawn  
accurately

Work out the size of angle  $APB$ .

[2 marks]

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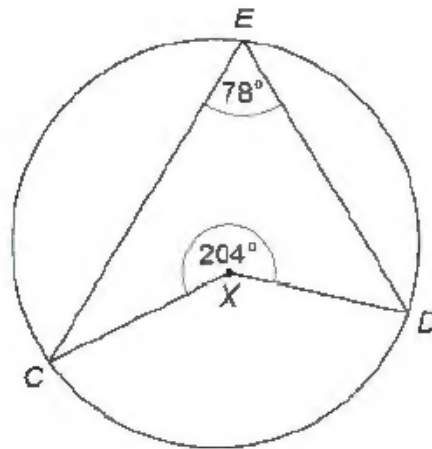
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Answer \_\_\_\_\_ degrees

- 21 (b)  $C$ ,  $D$  and  $E$  are points on a different circle.

Not drawn  
accurately



Is  $X$  the centre of the circle?

Tick a box.

☐

Yes

☐

No

Show working to support your answer.

[2 marks]

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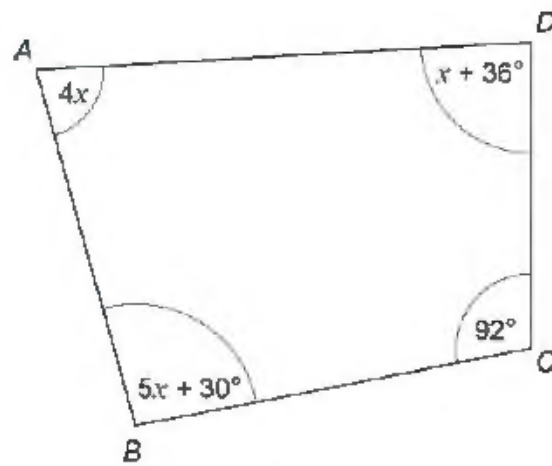
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23

$ABCD$  is a quadrilateral.

Not drawn  
accurately



Prove that  $ABCD$  is not a cyclic quadrilateral.

[4 marks]

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